CLAIMS

What is claimed is:

5 1. A rack equipment management system comprising:

rack equipment for participating in information processing activities;

a management component for managing power consumption and thermal load of said rack equipment; and

a communication link for communicatively coupling said rack equipment and said management component, wherein said communication link communicates information between said management component and said rack equipment.

- 2. A rack equipment management system of claim 1 wherein said management component controls said power consumption and said thermal load of said rack equipment within a power consumption and heat dissipation budget.
- 3. A rack equipment management system of claim 1 further comprising an operator interface for presenting disparate information in a unified manner and facilitating adjustments in said rack equipment operating settings and performance levels.
- 4. A rack equipment management system of claim 1 wherein said management component analyzes information communicated on said communications bus and determines applicability of management plan policies to said information.

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- 5. A rack equipment management system of claim 1 wherein said management processing component directs manipulation of said power consumption and said thermal load of said rack equipment in accordance with management plan policies.
- 5 6. A rack equipment management system of claim 1 wherein said management component is included in an intelligent power distribution unit, wherein said intelligent power distribution unit aggregates multiple power line cords from said rack equipment into a smaller number of power line cords at a rack level.
- 7. A rack equipment management system of claim 1 wherein said communication link communicates information compliant with a protocol permitting automatic configuration of power consumption and heat dissipation for said rack equipment.
 - 8. A rack equipment management method comprising:

 receiving information related to a rack equipment management plan;

 analyzing policies of said rack equipment management plan associated with
 rack equipment operation; and

directing manipulation of power consumption and thermal load associated with said rack equipment.

- 9. A rack equipment management method of claim 8 wherein said rack equipment is associated with information processing.
- 10. A rack equipment management method of claim 8 wherein directing includes
 25 issuing a command to manipulate operation of equipment associated with supporting said rack equipment operations.

- 11. A rack equipment management method of claim 8 wherein said manipulation includes instructions to adjust a frequency and a voltage of said rack equipment.
- 5 12. A rack equipment management rack equipment management method of claim 8 wherein said manipulation includes turning on and off said rack equipment.
 - 13. A rack equipment management method of claim 8 automatically adjusting said rack management plan interactively.
 - 14. A computer usable storage medium having computer readable program code embodied therein for causing a computer system to implement rack equipment management instructions comprising:

an event monitoring module for monitoring the occurrence of triggering events;

a policy review engine module for investigating management plan objectives and policies associated with said triggering event; and

a command generation module for generating performance adjustment commands corresponding to said management plan objectives.

15. A computer usable storage medium of claim 14 storing rack equipment instructions further comprising a telemetry collection module for monitoring characteristics and activity of equipment associated with said management plan objectives.

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- 16. A computer usable storage medium of claim 16 storing rack equipment instructions wherein said telemetry collection module directs retrieval of information for confirming performance adjustment commands are complied with.
- 5 17. A computer usable storage medium of claim 14 storing rack equipment management instructions further comprising an event spawning module for generating events.
- 18. A computer usable storage medium of claim 14 storing rack equipment
 10 management instructions wherein said equipment associated with said processing includes support equipment.
 - 19. A computer usable storage medium of claim 14 storing rack equipment management instructions wherein said command generation module generates a command to alter power consumption and thermal load of said rack equipment.
 - 20. A computer usable storage medium of claim 14 storing rack equipment management instructions further comprising a management interface module for providing a user interface.